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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/938,787	08/24/2001	Masakazu Ukita	09792909-5137	2928	
26263	7590 08/19/2005		EXAM	EXAMINER	
SONNENSO P.O. BOX 06	CHEIN NATH & ROS	PENDLETO	PENDLETON, BRIAN T		
WACKER DRIVE STATION, SEARS TOWER			ART UNIT	PAPER NUMBER	
CHICAGO,	IL 60606-1080	2644			
		DATE MAILED: 08/19/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	on No.	Applicant(s)			
		09/938,78	17	UKITA, MASAKAZU			
		Examiner		Art Unit			
		Brian T. P		2644			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	1)⊠ Responsive to communication(s) filed on 15 July 2005.						
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠	 ✓ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) 9-17 and 25-32 is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1,2,6-8,18,20 and 22-24 is/are rejected. ✓ Claim(s) 3,5,19 and 21 is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 						
Applicat	ion Papers						
 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 24 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
2) 🔲 Notic 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/5 r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Species I in the reply filed on 7/15/05 is acknowledged.

Claims 9-17 and 25-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 7/15/05.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6-8, 18, 20, and 22-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagata, US Patent 6,009,396. Nagata discloses a microphone array system comprising an array of microphones 1, frequency analysis unit 2, and sound source position search unit 3. Frequency analysis unit 2 is first means of decomposing the signals into a plurality of different frequency band signals. Sound source position search unit 3 is the third means for estimating the direction of signal sources. As shown in figure 9, Nagata accomplishes calculating cross correlation functions for determining the direction of signal sources. Claims 1, 8, 18, and 24 are met. As to claim 2, there is disclosed a band-pass filter bank in frequency analysis unit 2 (see column 5 lines 62-67). As to claims 4 and 20, step S4 in figure 9 discloses a

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normalization step and step S5 accomplishes addition. Per claims 7 and 23, there is disclosed a sound source. As to claims 6 and 22, Nagata discloses in column 9 lines 45-63 the use of weighted addition to reduce the influence of noise.

Allowable Subject Matter

Claims 3, 5, 19, and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chang et al, US Patent 6,469,732; Matsuo, US Patent 6,760,449.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian T. Pendleton Examiner

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btp

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